Dr. Ing. Ibtissem Ben Makhlouf

Contact

former Research Assistant
makhlouf[at]embedded[dot]rwth-aachen[dot]de

Interests

- Erreichbarkeitsanalyse hybrider Systeme

Projects

- Sicherheitsanalyse und Regelung von Fahrzeugkolonnen

Publications

[BHK17]
PDFBIB

Ben Makhlouf, I., Hansen, N., and Kowalewski, S., "HyReach: A Reachability Tool for Linear Hybrid Systems Based on Support Functions", in *Proc. ARCH16. 3rd International Workshop on Applied Verification for Continuous and Hybrid Systems / Editors: Goran Frehse and Matthias Althoff*, 2017 in EPiC Series in Computing, pp. 68-79.

HyReach: A Reachability Tool for Linear Hybrid Systems Based on Support Functions

Bibtex entry :

```
@inproceedings {  BHK17,
    author = { Ben Makhlouf, Ibtissem and Hansen, Norman and
Kowalewski,
        Stefan },
    title = { HyReach: A Reachability Tool for Linear Hybrid Systems
Based
        on Support Functions },
    booktitle = { ARCH16. 3rd International Workshop on Applied
Verification
        for Continuous and Hybrid Systems / Editors: Goran Frehse
        and Matthias Althoff },
```

```
    pages = { 68-79 },
    series = { EPiC Series in Computing },
    year = { 2017 },
    organization = { 3. International Workshop on Applied Verification
for
        Continuous and Hybrid Systems, Vienna (Austria), 2016-04-12
        - 2016-04-12 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-213474 },
    cin = { 122810 / 120000 },
    url = { https://easychair.org/publications/paper/334327 },
}
```

[SAB+17]
PDFBIB

Schupp, S., Ábrahám, E., Ben Makhlouf, I., and Kowalewski, S., "HyPro : A C++ Library of State Set Representations for Hybrid Systems Reachability Analysis", in *Proc. NASA formal methods : 9th international symposium, NFM 2017, Moffett Field, CA, USA, May 16-18, 2017 : proceedings / Clark Barrett, Misty Davies, Temesghen Kahsai (eds.)*, Cham, 2017 in Lecture Notes in Computer Science, Springer, pp. 288-294.

HyPro : A C++ Library of State Set Representations for Hybrid Systems Reachability Analysis

Bibtex entry :

```
@inproceedings {  SAB+17,
    author = { Schupp, Stefan and Ábrahám, Erika and Ben Makhlouf,
        Ibtissem and Kowalewski, Stefan },
    title = { HyPro : A C++ Library of State Set Representations for
        Hybrid Systems Reachability Analysis },
    booktitle = { NASA formal methods : 9th international symposium,
NFM 2017,
        Moffett Field, CA, USA, May 16-18, 2017 : proceedings /
        Clark Barrett, Misty Davies, Temesghen Kahsai (eds.) },
    publisher = { Springer },
    pages = { 288-294 },
    series = { Lecture Notes in Computer Science },
    year = { 2017 },
    address = { Cham },
    organization = { NASA Formal Methods (NFM) Symposium, Moffett
Field, CA
        (USA), 2017-05-16 - 2017-05-18 },
    doi = { 10.1007/978-3-319-57288-8_20 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2017-06600 },
    cin = { 123420 / 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/696076 },
}
```

[Ben16]
PDFBIB

Ben Makhlouf, I., "Comparative evaluation and improvement of computational approaches to reachability analysis of linear hybrid systems", PhD Thesis, Aachen, 2016.

Comparative evaluation and improvement of computational approaches to reachability analysis of linear hybrid systems

Bibtex entry :

```
@phdthesis {  Ben16,
    author = { Ben Makhlouf, Ibtissem },
    othercontributors = { Kowalewski, Stefan and Frehse, Goran },
    title = { Comparative evaluation and improvement of computational
        approaches to reachability analysis of linear hybrid systems },
    publisher = { Shaker Verlag },
    school = { RWTH Aachen },
    pages = { viii, 221 Seiten : Illustrationen, Diagramme },
    series = { Aachener Informatik-Berichte },
    year = { 2016 },
    address = { Aachen },
    isbn = { 978-3-8440-4376-1 },
    typ = { PUB:(DE-HGF)3 },
    reportid = { RWTH-2016-02174 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/571624/files/571624.pdf },
}
```

[BGK15]
PDFBIB

Ben Makhlouf, I., Gan, J., and Kowalewski, S., "A Study on Solving Guard and Invariant Set Intersection in Zonotope-based Reachability of Linear Hybrid Systems", *IFAC-PapersOnLine*, vol. 48, iss. 27, pp. 13-20, 2015

A Study on Solving Guard and Invariant Set Intersection in Zonotope-based Reachability of Linear Hybrid Systems

Bibtex entry :

```
@article {  BGK15,
    author = { Ben Makhlouf, Ibtissem and Gan, Jonathan and Kowalewski,
        Stefan },
    title = { A Study on Solving Guard and Invariant Set Intersection
in
        Zonotope-based Reachability of Linear Hybrid Systems },
```

```
    journal = { IFAC-PapersOnLine },
    publisher = { IFAC },
    pages = { 13-20 },
    volume = { 48 },
    number = { 27 },
    year = { 2015 },
    address = { Laxenburg },
    issn = { 2405-8963 },
    organization = { Analysis and Design of Hybrid Systems, Atlanta, GA
(USA),
        2015-10-14 - 2015-10-16 },
    doi = { 10.1016/j.ifacol.2015.11.146 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2015-07851 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/565384 },
}
```

[BK15]
PDFBIB

Ben Makhlouf, I. and Kowalewski, S., "Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools", in *Proc. [ARCH14-15. 1st and 2nd International Workshop on Applied veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias Althoff (editors)]*, 2015 in EPiC Series in Computer Science, EasyChair, pp. 37-42.

Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools

Bibtex entry :

```
@inproceedings {  BK15,
    author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
    title = { Networked Cooperative Platoon of Vehicles for Testing
        Methods and Verification Tools },
    booktitle = { [ARCH14-15. 1st and 2nd International Workshop on
Applied
        veRification for Continuous and Hybrid Systems / Goran
        Frehse and Matthias Althoff (editors)] },
    publisher = { EasyChair },
    pages = { 37-42 },
    series = { EPiC Series in Computer Science },
    year = { 2015 },
    organization = { 1. and 2nd International Workshop on Applied
veRification
        for Continuous and Hybrid Systems },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-207903 },
    cin = { 122810 / 120000 },
    url = {
http://www.easychair.org/publications/download/Networked_Cooperative_Pl
```

```
atoon_of_Vehicles_for_Testing_Methods_and_Verification_Tools },
}
```

[BK15a]
PDFBIB

Ben Makhlouf, I. and Kowalewski, S., "Optimizing Safe Control of a Networked Platoon of Trucks Using Reachability", in *Proc. [ARCH14-15. 1st and 2nd International Workshop on Applied veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias Althoff (editors)]*, 2015 in EPiC Series in Computing, EasyChair, pp. 169-179.

Optimizing Safe Control of a Networked Platoon of Trucks Using Reachability

Bibtex entry :

```
@inproceedings {  BK15a,
    author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
    title = { Optimizing Safe Control of a Networked Platoon of Trucks
        Using Reachability },
    booktitle = { [ARCH14-15. 1st and 2nd International Workshop on
Applied
        veRification for Continuous and Hybrid Systems / Goran
        Frehse and Matthias Althoff (editors)] },
    publisher = { EasyChair },
    pages = { 169-179 },
    series = { EPiC Series in Computing },
    year = { 2015 },
    organization = { 1. and 2nd International Workshop on Applied
veRification
        for Continuous and Hybrid Systems },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207910 },
    cin = { 122810 / 120000 },
    url = { http://www.easychair.org/images/pdf.gif },
}
```

[CSB+15]
PDFBIB

Chen, X., Schupp, S., Ben Makhlouf, I., Ábrahám, E., Frehse, G., and Kowalewski, S., "A Benchmark Suite for Hybrid Systems Reachability Analysis", in *Proc. NASA Formal Methods ; 7th International Symposium, NFM 2015, Pasadena, Calif., USA, April 27-29, 2015, Proceedings / edited by Klaus Havelund, Gerard Holzmann, Rajeev Joshi*, Cham, 2015 in Lecture Notes in Computer Science, Springer, pp. 408-414.

A Benchmark Suite for Hybrid Systems Reachability Analysis

Bibtex entry :

```
@inproceedings {  CSB+15,
```

```
    author = { Chen, Xin and Schupp, Stefan and Ben Makhlouf, Ibtissem
and
        Ábrahám, Erika and Frehse, Goran and Kowalewski, Stefan },
    title = { A Benchmark Suite for Hybrid Systems Reachability
Analysis },
    booktitle = { NASA Formal Methods ; 7th International Symposium,
NFM 2015,
        Pasadena, Calif., USA, April 27-29, 2015, Proceedings /
        edited by Klaus Havelund, Gerard Holzmann, Rajeev Joshi },
    publisher = { Springer },
    pages = { 408-414 },
    series = { Lecture Notes in Computer Science },
    year = { 2015 },
    address = { Cham },
    organization = { 7. International Symposium Formal Methods,
Pasadena, Calif.
        (Germany), 2015-04-27 - 2015-04-29 },
    doi = { 10.1007/978-3-319-17524-9_29 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207695 },
    cin = { 123420 / 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/541100 },
}
```

[SAC+15]
PDFBIB

Schupp, S., Ábrahám, E., Chen, X., Ben Makhlouf, I., Frehse, G., Sankaranarayanan, S., and Kowalewski, S., "Current Challenges in the Verification of Hybrid Systems", in *Proc. Cyber physical systems : design, modeling, and evaluation ; 5th international workshop, CyPhy 2015, Amsterdam, The Netherlands, October 8, 2015 ; proceedings / Christian Berger ... (eds.)*, Cham, 2015 in Lecture Notes in Computer Science, Springer International Publishing, pp. 8-24.

Current Challenges in the Verification of Hybrid Systems

Bibtex entry :

```
@inproceedings {  SAC+15,
    author = { Schupp, Stefan and Ábrahám, Erika and Chen, Xin and Ben
        Makhlouf, Ibtissem and Frehse, Goran and Sankaranarayanan,
        Sriram and Kowalewski, Stefan },
    title = { Current Challenges in the Verification of Hybrid Systems
},
    booktitle = { Cyber physical systems : design, modeling, and
evaluation ;
        5th international workshop, CyPhy 2015, Amsterdam, The
        Netherlands, October 8, 2015 ; proceedings / Christian
        Berger ... (eds.) },
    publisher = { Springer International Publishing },
    pages = { 8-24 },
    series = { Lecture Notes in Computer Science },
```

```
    year = { 2015 },
    address = { Cham },
    organization = { 5. Workshop on Design, Modeling, and Evaluation of
Cyber
        Physical Systems, Amsterdam (Netherlands), 2015-10-08 -
        2015-10-08 },
    doi = { 10.1007/978-3-319-25141-7_2 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2015-07355 },
    cin = { 121310 / 120000 / 123420 / 121330 / 122810 },
    url = { http://publications.rwth-aachen.de/record/564375 },
}
```

[BK14]
PDFBIB

Ben Makhlouf, I. and Kowalewski, S., "Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools", in *Proc. ARCH14 CPSWeek 2014 : Berlin, Germany, April 14 - 17, 2014*, [s.l.], 2014, p. 6.

Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools

Bibtex entry :

```
@inproceedings {  BK14,
    author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
    title = { Networked Cooperative Platoon of Vehicles for Testing
        Methods and Verification Tools },
    booktitle = { ARCH14 CPSWeek 2014 : Berlin, Germany, April 14 - 17,
2014 },
    pages = { 6 Seiten },
    year = { 2014 },
    address = { [s.l.] },
    organization = { ARCH14 CPSWeek 2014, Berlin (Germany),
2014-04-14-2014-04-17 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-205606 },
    cin = { 120000 / 122810 },
    url = { http://cps-vo.org/node/12115 },
}
```

[BDK13]
PDFBIB

Ben Makhlouf, I., Diab, H., and Kowalewski, S., "Reachability Analysis for Managing Platoons at Intersections", in *Proc. 2013 21st Mediterranean Conference on Control & Automation (MED 2013) : [Platanias], Chania, Crete, Greece, 25 - 28 June 2013 ; [conference proceedings] / [sponsor: Mediterranean Control Association. Technical co-sponsors: IEEE Control Systems Society; IEEE Robotics & Automation Society ... Ed. by Panos Antsaklis ...]. - 1-2*, Piscataway, NJ, 2013, IEEE, pp. 1141-1147.

Reachability Analysis for Managing Platoons at Intersections

Bibtex entry :

```
@inproceedings {  BDK13,
    author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
        Stefan },
    title = { Reachability Analysis for Managing Platoons at
Intersections },
    booktitle = { 2013 21st Mediterranean Conference on Control &
Automation
        (MED 2013) : [Platanias], Chania, Crete, Greece, 25 - 28
        June 2013 ; [conference proceedings] / [sponsor:
        Mediterranean Control Association. Technical co-sponsors:
        IEEE Control Systems Society; IEEE Robotics & Automation
        Society ... Ed. by Panos Antsaklis ...]. - 1-2 },
    publisher = { IEEE },
    pages = { 1141-1147 },
    year = { 2013 },
    address = { Piscataway, NJ },
    organization = { 21. Mediterranean Conference on Control &
Automation,
        Chania, Crete (Greece), 2013-06-25 - 2013-06-28 },
    doi = { 10.1109/MED.2013.6608864 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-204343 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/226951 },
}
```

[BHK13]
PDFBIB

Ben Makhlouf, I., Hänsch, P., and Kowalewski, S., "Comparison of Reachability Methods for Uncertain Linear Time-Invariant Systems", in *Proc. Proceedings of the 12th European Control Conference (ECC) : July 17 -19, 2013, Zuerich, Switzerland*, Zürich, 2013, Omnipress, pp. 1101-1106.

Comparison of Reachability Methods for Uncertain Linear Time-Invariant Systems

Bibtex entry :

```
@inproceedings {  BHK13,
    author = { Ben Makhlouf, Ibtissem and H{\"a}nsch, Paul and
Kowalewski,
        Stefan },
    title = { Comparison of Reachability Methods for Uncertain Linear
        Time-Invariant Systems },
```

```
    booktitle = { Proceedings of the 12th European Control Conference
(ECC) :
        July 17 -19, 2013, Zuerich, Switzerland },
    publisher = { Omnipress },
    pages = { 1101-1106 },
    year = { 2013 },
    address = { Z{\"u}rich },
    organization = { 12. European Control Conference (ECC), Zuerich
        (Switzerland), 2013-07-17 - 2013-07-19 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-202859 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/225184 },
}
```

[HDB+13]
PDFBIB

Hänsch, P., Diab, H., Ben Makhlouf, I., and Kowalewski, S., "Reachability Analysis of Linear Systems with Stepwise Constant Inputs", *Electronic notes in theoretical computer science : ENTCS*, vol. 297, pp. 61-74, 2013

Reachability Analysis of Linear Systems with Stepwise Constant Inputs

Bibtex entry :

```
@article {  HDB+13,
    author = { H{\"a}nsch, Paul and Diab, Hilal and Ben Makhlouf,
Ibtissem
        and Kowalewski, Stefan },
    title = { Reachability Analysis of Linear Systems with Stepwise
        Constant Inputs },
    journal = { Electronic notes in theoretical computer science :
ENTCS },
    publisher = { Elsevier },
    pages = { 61-74 },
    volume = { 297 },
    year = { 2013 },
    address = { Amsterdam },
    issn = { 1571-0661 },
    organization = { 1. workshop on Hybrid Autonomous Systems },
    doi = { 10.1016/j.entcs.2013.12.005 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-088053 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/445077 },
}
```

[BDK12]
PDFBIB

Ben Makhlouf, I., Diab, H., and Kowalewski, S., "Safety Verification of a Controlled Cooperative Platoon Under Loss of Communication Using Zonotopes", in *Proc. Inproceeding of the 4th IFAC Conference on Analysis and Design of Hybrid Systems (ADHS 12), Eindhoven, NL*, 2012, pp. 333-338.

Safety Verification of a Controlled Cooperative Platoon Under Loss of Communication Using Zonotopes

Bibtex entry :

```
@inproceedings {  BDK12,
    author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
        Stefan },
    title = { Safety Verification of a Controlled Cooperative Platoon
        Under Loss of Communication Using Zonotopes },
    booktitle = { Inproceeding of the 4th IFAC Conference on Analysis
and
        Design of Hybrid Systems (ADHS 12), Eindhoven, NL },
    pages = { 333-338 },
    year = { 2012 },
    organization = { 4. IFAC Conference on Analysis and Design of
Hybrid Systems,
        Eindhoven (Netherlands) },
    doi = { 10.3182/20120606-3-NL-3011.00053 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-200116 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/197942 },
}
```

[DBK12]
PDFBIB

Diab, H., Ben Makhlouf, I., and Kowalewski, S., "A Platoon of Vehicles Approaching an Intersection: A Testing Platform for Safe Intersections", in *Proc. 2012 15th International IEEE Conference on Intelligent Transportation Systems (ITSC) : 16 - 19 Sept. 2012, Anchorage, Alaska, USA*, Piscataway, NJ, 2012, IEEE, pp. 1918-1923.

A Platoon of Vehicles Approaching an Intersection: A Testing Platform for Safe Intersections

Bibtex entry :

```
@inproceedings {  DBK12,
    author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
        Stefan },
    title = { A Platoon of Vehicles Approaching an Intersection: A
Testing
        Platform for Safe Intersections },
    booktitle = { 2012 15th International IEEE Conference on
```

```
Intelligent
        Transportation Systems (ITSC) : 16 - 19 Sept. 2012,
        Anchorage, Alaska, USA },
    publisher = { IEEE },
    pages = { 1918-1923 },
    year = { 2012 },
    address = { Piscataway, NJ },
    organization = { 15. International IEEE Conference on Intelligent
        Transportation Systems, Anchorage (USA), 16-09-2012 -
        19-09-2012 },
    doi = { 10.1109/ITSC.2012.6338822 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-199932 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/197725 },
}
```

[BMH+11]
PDFBIB

Ben Makhlouf, I., Maschuw, J. P., Hänsch, P., Diab, H., Kowalewski, S., and Abel, D., "Safety Verification of a Cooperative Vehicle Platoon withUncertain Inputs Using Zonotopes", in *Proc. Proceedings of the 18th IFAC World Congress, 2011 : August 28 - September 2, 2011, Università Cattolica del Sacro Cuore, Milano Italy / Ed.: Sergio Bittanti …*, Milano, Italy, 2011 in IFAC-PapersOnLine, Curran, pp. 9769-9774.

Safety Verification of a Cooperative Vehicle Platoon withUncertain Inputs Using Zonotopes

Bibtex entry :

```
@inproceedings {  BMH+11,
    author = { Ben Makhlouf, Ibtissem and Maschuw, Jan P. and
H{\"a}nsch,
        Paul and Diab, Hilal and Kowalewski, Stefan and Abel, Dirk },
    title = { Safety Verification of a Cooperative Vehicle Platoon
        withUncertain Inputs Using Zonotopes },
    booktitle = { Proceedings of the 18th IFAC World Congress, 2011 :
August
        28 - September 2, 2011, Università Cattolica del Sacro
        Cuore, Milano Italy / Ed.: Sergio Bittanti ... },
    publisher = { Curran },
    pages = { 9769-9774 },
    series = { IFAC-PapersOnLine },
    year = { 2011 },
    address = { Milano, Italy },
    organization = { 18. IFAC World Congress, Milano (Italy),
2011-08-28 -
        2011-09-02 },
    doi = { 10.3182/20110828-6-IT-1002.02165 },
    typ = { PUB:(DE-HGF)8 },
```

```
    reportid = { RWTH-CONV-173769 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/100991 },
}
```

[CBD+10]
PDFBIB

Chávez Grunewald, M. G., Ben Makhlouf, I., Diab, H., Abel, D., and Kowalewski, S., "On the Effects of Network Delays on an Energy-based Controller", , TuPO11.1, 2010.

On the Effects of Network Delays on an Energy-based Controller

Bibtex entry :

```
@techreport {  CBD+10,
    author = { Chávez Grunewald, Martin Guillermo and Ben Makhlouf,
        Ibtissem and Diab, Hilal and Abel, Dirk and Kowalewski,
        Stefan },
    title = { On the Effects of Network Delays on an Energy-based
        Controller },
    booktitle = { NecSys'10 : 2nd IFAC Workshop on Distributed
Estimation and
        Control in Networked Systems ; 13-14 September, 2010, Centre
        de Congrès de L'Impérial Palace, Annecy, France },
    pages = { 169-174 },
    number = { TuPO11.1 },
    year = { 2010 },
    organization = { 2. IFAC Workshop on Distributed Estimation and
Control in
        Networked Systems, Annecy (France), 2010-09-13 - 2010-09-14 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-009571 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/118448 },
}
```

[CBD+10a]
PDFBIB

Chávez Grunewald, M. G., Ben Makhlouf, I., Diab, H., Mut, V., Kowalewski, S., and Abel, D., "Regelung und Sicherheitsanalyse einer Gruppe Massenpunktfahrzeuge mit Hilfe energiebasierter Methoden", in *Proc. Automatisierungstechnik : at*, München, 2010, vol. 58, Oldenbourg, pp. 227-235.

Regelung und Sicherheitsanalyse einer Gruppe Massenpunktfahrzeuge mit Hilfe energiebasierter

Methoden

Bibtex entry :

```
@inproceedings {  CBD+10a,
    author = { Chávez Grunewald, Martin Guillermo and Ben Makhlouf,
        Ibtissem and Diab, Hilal and Mut, Vicente and Kowalewski,
        Stefan and Abel, Dirk },
    title = { Regelung und Sicherheitsanalyse einer Gruppe
        Massenpunktfahrzeuge mit Hilfe energiebasierter Methoden },
    booktitle = { Automatisierungstechnik : at },
    publisher = { Oldenbourg },
    pages = { 227-235 },
    volume = { 58 },
    number = { 4 },
    year = { 2010 },
    address = { M{\"u}nchen },
    issn = { 0178-2312 },
    doi = { 10.1524/auto.2010.0829 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-002157 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/133927 },
}
```

[DCB+10]
PDFBIB
Diab, H., Chávez Grunewald, M. G., Ben Makhlouf, I., Abel, D., and Kowalewski, S., "A testing platform for cooperative vehicle platoon controllers", in *Proc. 13th International IEEE Conference on Intelligent Transportation Systems : ITSC 2010 ; 19 - 22 September, 2010, Madeira Island, Portugal ; conference proceedings / IEEE*, Piscataway, NJ, 2010, IEEE, pp. 1718-1723.

A testing platform for cooperative vehicle platoon controllers

Bibtex entry :

```
@inproceedings {  DCB+10,
    author = { Diab, Hilal and Chávez Grunewald, Martin Guillermo and
Ben
        Makhlouf, Ibtissem and Abel, Dirk and Kowalewski, Stefan },
    title = { A testing platform for cooperative vehicle platoon
        controllers },
    booktitle = { 13th International IEEE Conference on Intelligent
        Transportation Systems : ITSC 2010 ; 19 - 22 September,
        2010, Madeira Island, Portugal ; conference proceedings /
        IEEE },
    publisher = { IEEE },
    pages = { 1718-1723 },
    year = { 2010 },
```

```
    address = { Piscataway, NJ },
    organization = { 13. International IEEE Conference on Intelligent
        Transportation Systems, Madeira Island (Portugal),
        2010-09-19 - 2010-09-22 },
    doi = { 10.1109/ITSC.2010.5625258 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-189667 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/118439 },
}
```

[BKC+09]
PDFBIB

Ben Makhlouf, I., Kowalewski, S., Chávez Grunewald, M. G., and Abel, D., "Safety assessment of networked vehicle platoon controllers : practical experiences with available tools", in *Proc. ADHS'09: 3rd IFAC Conference on Analysis and Design of Hybrid : September 16, 17 - 18, University of Zaragoza, Spain / Aragón Institute for Engineering Research*, Zaragoza, Spain, 2009, University of Zaragoza.

Safety assessment of networked vehicle platoon controllers : practical experiences with available tools

Bibtex entry :

```
@inproceedings {  BKC+09,
    author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan and Chávez
        Grunewald, Martin Guillermo and Abel, Dirk },
    title = { Safety assessment of networked vehicle platoon
controllers :
        practical experiences with available tools },
    booktitle = { ADHS'09: 3rd IFAC Conference on Analysis and Design
of
        Hybrid : September 16, 17 - 18, University of Zaragoza,
        Spain / Aragón Institute for Engineering Research },
    publisher = { University of Zaragoza },
    year = { 2009 },
    address = { Zaragoza, Spain },
    organization = { 3. IFAC Conference on Analysis and Design of
Hybrid,
        Zaragoza (Spain), 2009-09-16 - 2009-09-18 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172519 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99560 },
}
```

[DBK+09]
PDFBIB

Diab, H., Ben Makhlouf, I., Kowalewski, S., Chávez, M., and Abel, D., "Control and Safety Analysis of a Platoon under Communication Constraints", in *Proc. NE\[S/T\]COC, Sept. 28/29, Stuttgart,*

Priority Program 1305 Posters S.5, 2009, pp. 70-71.

Control and Safety Analysis of a Platoon under Communication Constraints

Bibtex entry :

```
@inproceedings {  DBK+09,
    author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
        Stefan and Chávez, Martin and Abel, Dirk },
    title = { Control and Safety Analysis of a Platoon under
Communication
        Constraints },
    booktitle = { NE\[S/T\]COC, Sept. 28/29, Stuttgart, Priority
Program 1305
        Posters S.5 },
    pages = { 70-71 },
    year = { 2009 },
    organization = { NE{S/T}COC, Stuttgart (Germany), 2009-09-28 -
2009-09-29 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173123 },
    cin = { 416610 / 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100238 },
}
```

[BK06]
PDFBIB

Ben Makhlouf, I. and Kowalewski, S., "An evaluation of two recent reachability analysis tools for hybrid systems", in *Proc. Preprints / ADHS '06, 2nd IFAC Conference on Analysis and Design of Hybrid Systems : Alghero, Italy, June 7 - 9, 2006 / IFAC, International Federation of Automatic Control; DIEE, Dipartimento di Ingegneria Elettrica ed Elettronica, Università di Cagliari. Ed.: C. G. Cassandras ...*, Alghero, 2006, pp. 377-382.

An evaluation of two recent reachability analysis tools for hybrid systems

Bibtex entry :

```
@inproceedings {  BK06,
    author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
    title = { An evaluation of two recent reachability analysis tools
for
        hybrid systems },
    booktitle = { Preprints / ADHS '06, 2nd IFAC Conference on Analysis
and
        Design of Hybrid Systems : Alghero, Italy, June 7 - 9, 2006
        / IFAC, International Federation of Automatic Control; DIEE,
        Dipartimento di Ingegneria Elettrica ed Elettronica,
```

```
        Università di Cagliari. Ed.: C. G. Cassandras ... },
    pages = { 377-382 },
    year = { 2006 },
    address = { Alghero },
    organization = { 2. IFAC Conference on Analysis and Design of
Hybrid Systems,
        Alghero (Italy), 2006-06-07 - 2006-06-09 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-188518 },
    cin = { 122810 / 120000 },
    url = {
http://www.ifac-papersonline.net/cgi-bin/links/page.cgi?g=Detailed/3019
0.html;d=1 },
}
```

From:
https://embedded.rwth-aachen.de/ - **Informatik 11 - Embedded Software**

Permanent link:
https://embedded.rwth-aachen.de/doku.php?id=en:lehrstuhl:mitarbeiter:makhlouf

Last update: **2016/06/09 15:27**